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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/763,810	01/23/2004	Cynthia C. Bamdad	M1015.70054US01	5010
759	7590 07/05/2005 E		EXAM	XAMINER
Timothy J. Oyer, Ph.D.			DAVIS, DEBORAH A	
Wolf, Greenfield & Sacks, P.C. 600 Atlantic Avenue Boston, MA 02210			ART UNIT	PAPER NUMBER
			1641	
			DATE MAILED: 07/05/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commons	10/763,810	BAMDAD ET AL.				
Office Action Summary	Examiner	Art Unit				
	Deborah A. Davis	1641 .				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the co	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONET	ely filed will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>02 De</u>	Responsive to communication(s) filed on <u>02 December 2004</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	,					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ■ All b) ■ Some * c) ■ None of: 1. ■ Certified copies of the priority documents have been received. 2. ■ Certified copies of the priority documents have been received in Application No. ■						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. The preamble of claim 1 is vague and indefinite because an independent claim should contain a preamble comprising a general description of all the elements or steps of the claimed combination, which are conventional or known. **MPEP § 608.01(m)**
- 4. Claim 1 recites "colloid particles carrying immobilized species" in line 4 is vague because it is unclear as to whether the colloid particles bind the immobilized components on the first or second surface or region, or if the colloid particles are bound to the immobilized components. Does the species on the colloid particles bind to the immobilized components? This is unclear.

Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double

patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 1 is provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 276 of copending Application No. 10/823,097. Although the conflicting claims are not identical, they are not patentably distinct from each other because the subject matter claimed in the instant application is fully disclosed in the referenced copending application and would be covered by any patent granted on that copending application since the referenced copending application and the instant application are claiming common subject matter, as follows: A method of allowing a first colloid particle fastened with a biological species and a second colloid particle fastened to a colloid particle (components immobilized to a support) to become immobilized together thereby detecting immobilization.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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7. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Michael Natan (USP#5,609,907).

The claim is drawn to a method of exposing a first surface or region of a surface carrying a first immobilized component and a second surface or region of a surface carrying a second immobilized component to colloid particles carrying immobilized species; and determining immobilization of the colloid particles to the first or second surface or region.

The reference of Natan teaches immobilized biotin components to a solid support and gold colloid particles carrying immobilized species such as BSA and streptavidin. Streptavidin reacts with biotin and immobilization of the gold colloid particles carrying the immobilized BSA and streptavidin are determined (see Figure 1C and column 3, lined 1-15). Other embodiments also teaches substrates with having functionalized groups embedded in glass solid supports that are exposed to gold colloid immobilized particles by immersion. The immobilization of colloid particles is detected by optical means (column 11, lines 25-67).

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

8. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Baker et al (2003/0157732).

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The claim is drawn to a method of exposing a first surface or region of a surface carrying a first immobilized component and a second surface or region of a surface carrying a second immobilized component to colloid particles carrying immobilized species; and determining immobilization of the colloid particles to the first or second surface or region.

The reference teaches immobilized biotin components on a substrate and protein coated colloidal particles immobilized to streptavidin. The colloidal coated particles are exposed to the biotin component immobilized substrates to determine immobilization of colloidal particles to the surface of the biotin immobilized substrate (see Figure 20). Detection of immobilized colloidal particles to biotin surfaces can be determined by Raman spectroscopy (abstract).

Conclusion

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
 - A. The reference of Boss et al teaches Surface Enhanced Raman Scattering structures that includes metal islands formed the roughened surfaces of transparent substrates (USP#6,406,777).
 - B. The reference of Natan et al teaches self-assembled metal colloid monolayers having size and density gradients (USP#6,242,264).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah A. Davis whose telephone number is (571) 272-0818. The examiner can normally be reached on 8-5 Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on (571) 272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Buşiness Center (EBC) at 866-217-9197 (toll-free).

Deborah A. Davis

Remsen Bldg. Room 3D58

June 16, 2005

LONG V. LE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600

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